



BY REG. POST WITH ACK. DUE
CONSENT & AUTHORISATION ORDER

Consent Order No : APPCB/KNL/TPT/102/HO/CFO/2015-

Date: 03.12.2015

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to

**M/s. Dalmia Cement (Bharath) Ltd., [Cement Division],
Navabpet, Talamanchipatnam,
Chinna Komerla of Mylavaram (M),
YSR Kadapa District – 516 434.**

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below.

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
1.	Domestic effluents	188	After treatment in STP, onland for irrigation.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney
1.	Attached to Raw mill / Rotary Kiln
2.	Attached to Coal mill
3.	Attached to Cooler
4.	Attached to cooler discharge end
5.	Attached to cement mill
6.	Attached to crusher
7.	Attached to DG sets

iii) HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 5 (4)]

M/s. Dalmia Cement (Bharath) Ltd., [Cement Division], Navabpet, Talamanchipatnam, Chinna Komerla of Mylavaram (M), YSR Kadapa District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

HAZARDOUS WASTES RECYCLING OPTION:

S.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	Waste oil	5.1 Schedule-1	14 KL/Annum	Shall be disposed to the authorized recyclers/ re-processors / co-processing in cement kiln
2.	Used Batteries	22 of schedule-4	100 Nos.	Return to manufacturers/dealers on buyback basis

The industry is also permitted to procure and handle the following Hazardous / non-hazardous wastes from the Authorised industries for being used in co-incineration / co-processing purpose in the industry.

Hazardous / non-hazardous wastes procured from industries for co-incineration purpose:

S.No.	Name of the waste	Quantity of Hazardous waste	Disposal Option.
1.	Organic Spent Solvents (Solids and Liquids)	8000 MTA	Shall be used for Co-processing in the Rotary Kiln after obtaining final permission from CPCB / SPCBs.
2.	Paint Sludge	2000 MTA	
3.	ETP Sludge	1300 MTA	
4.	Process residues	1500 MTA	
5.	Spent Carbon	1000 MTA	
6.	Solid Waste Mix	6000 MTA	
7.	Waste Grease	500 MTA	
8.	GCB Dust	1000 MTA	
9.	Waste Mineral Oils	500 MTA	
10.	Plastic Waste	2000 MTA	
11.	Pet coke	2,00,000 MTA	
12.	Carbon Black	70,000 MTA	
13.	Dry food waste	2,000 MTA	
14.	Waste Tire Chips	1,00,000 MTA	
15.	Agro Waste	10,000 MT	
16.	STP Sludge	100 MTPA	

Hazardous / non-hazardous wastes procured from industries for co-processing purpose:

SI.No.	Waste Name	Quantity	Disposal Option
1.	Iron Sludge	10000 MTA	Shall be used for co-processing after obtaining final permission from CPCB / SPCBs.
2.	Carbon Sludge	3,000 MTA	
3.	Copper Slag	5,000 MTA	
4.	Chemical Gypsum	40,000 MTA	

Hazardous / non-hazardous wastes procured from industries for cement grinding purpose:

SI.No.	Waste Name	Quantity	Disposal Option
1.	Fly Ash	1,50,000 MTA	Shall be used for cement grinding purpose.
2.	Blast Furnace Slag	5,000 MTA	

The industry shall obtain final permission from CPCB / SPCBs for utilization of Hazardous / non-hazardous wastes mentioned above for co-incineration / co-processing as per Rule 11 of Hazardous wastes (M,H&TM) Rules, 2008 and amended there on.

This consent order is valid to manufacture the following products along with quantities only.

S.No	Products	Capacity
1	Ordinary Portland Cement / Pozzolana Portland Cement	4.06 MMTPA

(The cement production is inclusive of 2.60 MMTPA of clinker production)

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation should be valid for a period ending with the 30th day of November 2020.

Sd/-
MEMBER SECRETARY

To

M/s. Dalmia Cement (Bharath) Ltd., [Cement Division],
Navabpet, Talamanchipatnam,
Chinna Komerla of Mylavaram (M),
YSR Kadapa District – 516 434

//T.C.F.B.O.//

Kulav 4/12/15

JOINT CHIEF ENVIRONMENTAL ENGINEER
UNIT HEAD - IV

SCHEDULE - A

1. The applicant should make application through online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board.
2. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
3. The project occupier should immediately submit the revised application for consent to this Board in the event of any change in the building and site specifications, quantity of trade effluents & quantity of emissions etc.
4. The applicant should not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and should not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.
5. The applicant should, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production should be stopped.
6. Any up-set condition in the project, which results in increased effluent discharge and/ or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the standards laid down by the Board occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person-in-charge of the premises, from where such discharge / emission occurs or is apprehended to occur should forthwith intimate the fact of such occurrence or the apprehension of such occurrence to this Board, by fax / email under intimation to the Collector and District Magistrate.
7. In case of such episodal discharges / emissions mentioned in item 5 above, the project should take immediate action to bring down the discharge / emission below the limits prescribed in this order.
8. A good housekeeping should be maintained in the premises. All hoods, pipes, valves, sewers and drains should be leak proof. Floor washings should be admitted into the effluent collection system only and should not be allowed to find their way into storm drains or open areas.
9. a) The project should carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule – B of this Order at regular intervals.
b) The project should maintain following records for access to the Board, whenever required.
 1. Analysis reports of waste water/ emissions.
 2. Log book for operation of pollution control systems.
 3. Inspection book

10. Separate power connection with energy meter should be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment should be maintained separately.
11. The applicant should comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant should be liable for such legal action against him as per provisions of the Law/Act in case of non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.
12. The applicant should furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
13. The project is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability.
14. All the rules & regulations notified by Ministry of Environment and Forests, Government of India in respect of management, handling, transportation and storage of hazardous chemicals and wastes should be followed.
15. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed.
16. The occupier should educate the workers and nearby public of possible accidents and remedial measures.
17. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case should be held responsible.
18. The occupier should prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
19. Packaging, labeling and transportation of Hazardous Wastes should be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling should be based on the composition and hazardous constituent of the waste, however all Hazardous Waste containers should be provided with a general label.
20. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
21. No Hazardous Wastes should be mixed with any other wastes or should be discharged to a common, other internal, external sewerage or other drainage system without prior approval of APPCB.
22. If MS/HDPE bags or drums are used for storing Hazardous Wastes, these drums / bags should be ensured that they are perfectly sealed.
23. The project should comply with the provisions of Batteries (Management & Handling) Rules, 2001.
24. The project should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate. The first sign board should provide information on specific conditions of CFO and Hazardous Waste Authorisation. The second sign board should display waste water, air emissions and solid waste generated within the factory premises.
25. The applicant should exhibit the Consent & HW Authorisation order of the Board in the factory premises at a prominent place for the information of the inspecting officers of the different departments.
26. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and its amendments thereof to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
27. The authorisation issued under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments thereof, should comply with the provision of the Environment (Protection) Act, 1986.
28. The facility may explore the possibility of tapping the solar energy for their energy requirements.
29. The applicant shall comply with the all the directions issued by the Board from time to time.
30. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

SCHEDULE - B

1. The industry should take steps to reduce water consumption to the extent possible and consumption should NOT exceed the quantities mentioned below:

S.no	Purpose	Quantity
1.	Process	1272 KLD
2.	Washings	
3.	Boiler feed	
4.	Industrial Cooling (Makeup) / Humidification / Water spraying).	
5.	Gardening / Irrigation	
6.	Domestic	40 KLD
Total		1312 KLD

2. The effluent discharged should comply with the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards (mg/l except for pH)
1.	PH	5.50 – 9.00
	Suspended Solids (at 103 – 105° C)	200
	Bio Chemical Oxygen Demand (BOD)	100
	Oil and Grease	10

3. The industry should file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry should remit water cess as per the assessment orders as and when issued by Board.
4. The emissions shall not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	*Concentration not to exceed in mg/Nm ³
1 to 5	Particulate Matter	50 (upto 31.05.2016)
	Particulate Matter	30 (with effect from 01.06.2016)
	SO ₂	100
	NO ₂	800 (with effect from 01.01.2016)

- Particulate matter from raw mill, kiln and pre-calciner system put together shall not exceed 0.125 Kg/tonne of clinker (with effect from 01.01.2017)
5. The industry shall comply with rules notified by the MoEF&CC, GoI in the G.S.R.612 (E) dt.25.08.2014 as stipulated in Environment (Protection) (Fifth Amendment) Rules, 2014 as applicable.
6. The industry should comply with emission limits for DG sets upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets more than 800 KW should comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
7. The industry should comply with ambient air quality standards of PM10 (Particulate Matter size less than 10 µm) - 100 µg/ m³; PM2.5 (Particulate Matter size less than 2.5 µm) - 60 µg/ m³; SO₂ - 80 µg/ m³; NO_x - 80 µg/m³, outside the factory premises at the periphery of the industry.
- Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009
- Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)
Night time (10 PM to 6 AM) - 70 dB (A).
5. The industry should not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the Board.
6. The industry shall regularly operate the Sewage Treatment Plant for treatment of domestic effluents and shall comply the standards before utilizing the treated waste water for onland for irrigation.
7. The industry should maintain interlocking facility between APC equipment and raw material feeding system to regulate the feeding of raw material into the Kiln, so that feeding of raw materials would stop automatically in case the air pollution control equipment fails.

8. The industry shall ensure regular maintenance and operation of the on-line stack monitoring systems and CAAQM stations with tamper proof mechanism having facilities for online calibration.
9. The industry shall furnish details of fly ash brought from the nearby Coal based Thermal Plants on quantity of fly ash consumed per each ton of product, inventory of fly ash at on-site along with details of measures implemented to mitigate fugitive emissions at various transfers to the R.O., Tirupati for every three months.
10. The industry shall regularly operate and maintain the water sprinklers provided at all the fugitive emissions sources and shall ensure compliance of Ambient Air Quality standards stipulated.
11. The industry should not discharge any waste water within or outside the premises under any circumstances.
12. The industry maintain 33% of greenbelt in the plant. The industry shall take proper measures for survival of the saplings planted.
13. The industry shall comply with all the conditions stipulated in the Environmental Clearance dt.05.04.2007.
14. The industry shall comply all the conditions stipulated in the CFE order dt.05.05.2007.
15. The industry shall comply with all the directions stipulated in the Task Force directions dt.16.08.2013 issued by the Board.
16. The industry shall provide rain water harvesting structures on the available up-stream portion of the plant to recharge ground water.
17. The applicant should submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments.

SCHEDULE - C

[see rule 5(4)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The following acceptance criteria shall be followed for utilization of Hazardous waste in the rotary kiln.

Specification of HW for use as Alternative raw material:

Parameter	Limit
Volatile Organic Hydrocarbon	<5000 ppm
Total Organic Carbon (TOC)	<1000ppm
CaO+SiO ₂ +Al ₂ O ₃ +Fe ₂ O ₃ +SO ₃ (In Ash)	>80%
Chloride	<1.5%
Sulphur	<1.5%
PCB/PCT (ppm)	<5.0
Heavy Metals (ppm)	
Hg	<10
Cd+Ti+Hg	<100
As+Co+Ni+Se+Te+Sb+Cr+Sn+Pb+V	<10,000

Specification of HW for use as use of energy recovery:

Parameter	Limit
Calorific value as received basis	>2500 K Cal/Kg
Ash	
Liquid	<5%
Solid	<20%
Chloride	<1.5%
Halogens (F+Br+I)	<1.0%
Sulphur	<1.5%
PCB/PCT (ppm)	<50
Heavy Metals (ppm)	
Hg	<10
Cd+ti+Hg	<100
As+Co+Ni+se+Te+Sb+Cr+Sn+Pb+V	<10,000
pH	4 to 12
Viscosity (cSt) for liquid	<100
Flash Point (Deg Centigrade) (for liquid)	>60

2. The industry shall take all precautionary measures to prevent odour nuisance and spillages during the storage and handling of hazardous wastes.

3. The wastes of high calorific value have to be always fed into the high temperature combustion zones of the kiln system. Such wastes containing stable toxic components should be fed to the main burner to ensure complete combustion in the high temperature and long retention time.
4. The guidelines of CPCB on co-processing in cement plants shall be followed.
5. The ground level concentrations shall meet the National ambient air quality standards notified under CPCB Notification No.B-29016-20/90/PCI-I, dated 18.11.2009.
6. The industry shall follow the guidelines of CPCB for labeling, transportation, storage and disposal of Hazardous wastes.
7. The industry shall ensure the Hazardous wastes manifest system is maintained.
8. The industry should give top priority for waste minimization and cleaner production practices.
9. The industry should not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
10. The industry should store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
11. The industry should not dispose Waste oils to the traders and the same should be disposed to the authorized Reprocessors/ Recyclers.
12. The industry should dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
13. The industry should take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
14. The industry should maintain 6 copy manifest system for transportation of waste generated and a copy should be submitted to Board Office and concerned Regional Office.
15. The industry should maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
16. The industry should maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
17. The industry should dispose of e-waste to the authorized recyclers only.
18. The unit should submit the condition wise compliance report of the conditions stipulated in Schedule B and Schedule C of this order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

Sd/-
MEMBER SECRETARY

To
M/s. Dalmia Cement (Bharath) Ltd., [Cement Division],
Navabpet, Talamanchipatnam,
Chinna Komerla of Mylavaram (M),
YSR Kadapa District.

//T.C.F.B.O.//

Wlas 4/12/15

JOINT CHIEF ENVIRONMENTAL ENGINEER
UNIT HEAD - IV

